

U.S. Department of Transportation (DOT), Research and Special Programs Administration, Office of Contracts and Procurement, DMA-30, Room 7104, 400 Seventh Street SW, Washington, D.C. 20590

Ongoing Transportation Service and Infrastructure Assurance Research Activities

DTRS56-01-BAA-0002, due October 25, 2001, POC Warren Osterberg, (202) 366-6942.

This is Amendment #1 to BROAD AGENCY ANNOUNCEMENT #DTRS56-01-BAA-0002, Titled: Ongoing Transportation Service and Infrastructure Assurance Research Activities, for the United States Department of Transportation, Research and Special Programs Administration (RSPA, Office of Contracts and Procurement (DMA-30), 400 7<sup>th</sup> Street, SW, Room 7104, Washington, DC, 20590. Amendment #1 is hereby issued to provide the following additional information: 1) Include work with other Federal Departments and Agencies as a source; 2) Expand the areas of innovative technologies, methods and concepts to be explored (See \*\*\*\*\* below); and 3) Provide further detail on White Paper submission, Ten (10) hard copies along with a transmittal letter with appropriate signature. The entire announcement, including the revisions provided by Amendment #1, is provided below.

CONTRACT INFORMATION: BROAD AGENCY ANNOUNCEMENT soliciting information and descriptions (White Papers), not to exceed five pages per project, of ongoing technical or project activity addressing areas of interest described in this announcement. The intent of this announcement is to identify ongoing efforts currently funded by state and/or local governments, academic institutions, **OTHER FEDERAL DEPARTMENTS AND AGENCIES**, or the private sector intended to improve the security or reduce the vulnerability of transportation services to accidental or intentional disruption. The scope of transportation involved includes physical infrastructure and vehicles associated with pipelines, rail, ports and waterways, civil aviation, mass transit, highways, and especially combinations of these modes and the interfaces between and among them, as well as the information infrastructure associated with their operation and control. The aim of this activity is to take necessary steps to identify promising technologies and concepts and to promote their expeditious implementation.

**\*\*\*\*\*This announcement is hereby modified to expand the areas of innovative technologies, methods and concepts to include activities which predict and detect security threats in multi-modal transportation services and operations. Examples of such activities include: in-flight aviation threats, service disruptions to urban and intercity rail and mass transit stations and operations, service disruptions to intermodal operations, service disruptions to marine operations and ports, and surveillance of transportation systems through land and space-based sensing, communications and control technologies.\*\*\*\*\***

Specific areas of interest include **but are not limited to** the following: (1) *risk and vulnerability assessment* - new and innovative analytical techniques which might be applied to detecting potential hazards or weaknesses in the configuration of transportation; (2) *planning for transportation related contingencies* - taking steps in advance which might minimize the negative effects of disruptions to transportation services; (3) *innovative approaches to threat detection and*

*evaluation* - use of innovative technologies or approaches to determine whether malicious disruptions to specific transportation functions or services are likely, as well as other screening technologies for users or passengers; (4) ***reduction of vulnerabilities from critical infrastructure interdependencies*** - identification of interactions or interdependencies between/among transportation and other sectors and development of techniques to minimize negative aspects of disruptions to either; (5) ***innovative use of “smart technologies” to establish/assure the integrity of transportation physical infrastructure*** - use of micro/nano sensors to detect damage to transportation structures, and possibly repair damage without further intervention (6) ***approaches to improving the robustness of the information infrastructure responsible for transportation operational controls*** - development of techniques to reduce the vulnerability of transportation controls to use or misdirection by unauthorized individuals; (7) ***advanced materials and structures to reduce the vulnerability of transportation vehicles or facilities to blast effects*** - material which can assure the structural integrity of vehicles during their operational phases; and, (8) ***any other techniques or approaches to assuring the security and safe operation of transportation services***.

WHITE PAPERS: DOT is soliciting white papers from state and local governments, consortia, industry, and academia on their activities dealing with the topics declared above. Each white paper, not to exceed five pages, shall include sufficient information to evaluate the following areas: (1) Technical merit of the approach or concept; (2) Implementation time line of proposed technologies and concepts into transportation practice; (3) Technical experience and capabilities of the proposer; (4) Cost realism of cost estimate and potential for cost sharing contributions; and (5) Partnerships with Federal and State and/or local agencies and industry groups. All of the above factors are of equal importance.

GENERAL INFORMATION: This Broad Agency Announcement DTRS56-01-BAA-0002 can also be downloaded via the Internet at: <http://www.rspa.dot.gov> under Procurement Opportunities. In all correspondence to the RSPA Office of Contracts and Procurement, please reference the BAA Number DTRS56-01-BAA-0002. Early submission of white papers responding to this BAA is strongly encouraged. All white papers must be submitted to U.S. Department of Transportation, Research and Special Programs Administration, Office of Contracts and Procurement, DMA-30, 400 Seventh Street, S.W., Room 7104, Washington, D.C., **20590**, Attention: Mr. Warren Osterberg, Contracting Officer. **TEN (10) COPIES OF EACH WHITE PAPER MUST BE PROVIDED, IN HARD COPY, ACCOMPANIED BY A TRANSMITTAL LETTER WITH AN APPROPRIATE SIGNATURE.** White papers must be received by the above office no later October 25, 2001, 4:00 PM, EST. NOTE: All inquiries concerning this announcement shall be directed to the RSPA Office of Contracts and Procurement, Attention: Mr. Warren Osterberg, Contracting Officer, telephone: (202) 366-6942, email: [warren.osterberg@rspa.dot.gov](mailto:warren.osterberg@rspa.dot.gov).

BROAD AGENCY ANNOUNCEMENT: This FedBizOps notice and Commerce Business Daily (CBD) notice, in conjunction with further announcement details available from the RSPA procurement site Internet address identified above, constitutes the Broad Agency Announcement (BAA) as contemplated by FAR 6.102(d)(2). A formal Request for Proposals (RFP) or other type of solicitation regarding this announcement will not be issued. AT THIS TIME FUNDS HAVE NOT BEEN

APPROPRIATED FOR THIS REQUIREMENT. NOTHING IN THIS ANNOUNCEMENT SHOULD BE CONSTRUED AS A COMMITMENT BY RSPA TO AWARD ANY OF THE PROJECT AREAS IDENTIFIED ABOVE. An evaluation panel will review all white papers for responsiveness to the evaluation areas stated in this BAA. Offerors providing white papers deemed worthy of further consideration and meeting the criteria of this BAA will be notified with possible suggestions for change in scope and detailed guidelines for submitting full proposals.